



**University
of Manitoba**

Department of Animal Science

ANSC 0600 ANIMAL HEALTH AND WELFARE

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COURSE DETAILS

Course Title & Number:	ANSC 0600 Animal Health and Welfare
Number of Credit Hours:	3.0
Class Times & Days of Week:	1:00 – 2:15 pm on Tuesday and Thursday
Location for classes	Online
Prerequisites:	ANSC 0420 or equivalent.

Instructor Contact Information

Instructor(s) Name:	Dr. George N. Gozho
Office Location:	226 Animal Science Building
Office Hours or Availability:	Open door policy – no appointment necessary but please call or email to confirm availability between 8:30 am and 4:30 pm.
Office Phone No.	204-474-9443
Email:	George.gozho@umanitoba.ca All email communication must conform to the Communicating with Students university policy. (Please familiarize yourself with the policy). Use the subject line to state the reason for your email and add the course number. This will help me to determine which emails need urgent attention quickly. I will respond within 36 hours during the week only. I do not check my work email over the weekend.
Contact:	Use email communication, or set up WebEx or Microsoft Teams meetings.

Course Description

Students will learn to identify diseases common to commercial livestock and poultry species used in commercial agriculture in the Prairie Provinces and discuss control and prevention measures. Animal welfare issues that are common to these production systems will also be addressed. The impact of both animal health and animal welfare on livestock and animal products will also be discussed. The Prerequisite for this course is ANSC 0420. This is an introductory course in animal structure and function. It deals with genetics, growth and reproduction in farm animals, nutrition and utilization of nutrients.

General Course Information

The course provides students in the diploma in agriculture program an opportunity to better understand animal health and welfare issues relevant to Manitoba and Canada. Discussions will focus on identifying sick animals from healthy animals, recognizing abnormal and normal animal behaviour in the context of the system of production (i.e. confinement etc.), age, and stage of production. Primary causes of animal diseases, symptoms and treatment of the conditions will be discussed. The impact of animal welfare on current and future production systems will be addressed. Biosecurity measures on the farm will also be discussed. Codes of Practice for the care and handling of farm animals developed by the National Farm Animal Care Council (NFACC) will be used to illustrate how animal production systems incorporate humane handling and care for animals and thus animal welfare. The impact of animal welfare on animal production and trade will be discussed. Biological principles of vaccination (i.e. live vs dead; prime and booster doses) will also be discussed. These concepts are essential for students to appreciate the importance of timely vaccinations to achieve the best protection against pathogens.

Intended Learning Outcomes

At the end of the courses, students should be able to:

- a) Describe health and disease in the context of health management
- b) Describe the association of common diseases with suboptimum productivity or welfare
- c) Describe the risk factors, causes, symptoms, interrelationships and preventative management of common infectious diseases.
- d) Describe the basic animal welfare requirements and the implications of suboptimum animal welfare on animal performance and susceptibility to diseases
- e) Identify the relative importance of common diseases of cattle, swine, and poultry in Canada

Using Copyrighted Material

Please respect copyright. The content used in this course is appropriately acknowledged and copied according to copyright laws and university guidelines. Copyrighted works, including those created by guest lecturers or me, are made available for private study and research and must not be distributed in any format without permission.

Recording Class Lectures

No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without explicit permission from me. Course materials (both paper and digital) are for your private study and research.

Textbook, Readings, Materials

Required textbook

There is no required text for this course.

Course Technology

Lecture notes will be posted on UMLearn and students are encouraged to review and or print their own copy of the notes that they bring class. Hard copies of notes will **not** be provided to students. Laptops and tablets can be used to take notes during lectures. However personal direct electronic messaging / posting activities (email, texting, video or voice chat, wikis, blogs, social networking (e.g. Facebook) online and offline “gaming” during scheduled class time is not permitted. Anyone expecting to receive important telephone calls during the lecture should switch their cell phones to vibrate mode and leave the classroom upon reception of such calls to minimize disrupting class activities.

Class Communication

The University requires all students to activate an official University email account. For full details of the Electronic Communication with Students please visit:

[http://umanitoba.ca/admin/governance/media/Electronic Communication with Students Policy - 2014 06 05.pdf](http://umanitoba.ca/admin/governance/media/Electronic_Communication_with_Students_Policy_-_2014_06_05.pdf)

Please note that all communication between you as a student and myself must comply with the electronic communication with student policy:

(http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html). You are required to obtain and use your U of M email account for all communication between yourself and the university.

Expectations: I Expect You To

- a) Attend class on time.
- b) Ask for help.
- c) Work together on assignment problems other than exams (but prepare your individual answers independently)
- d) To act in a civil, respectful, and responsible manner toward all members of the U of M community

Academic Integrity:

Plagiarism or any other form of cheating in the final examination, term tests or academic work is subject to serious academic penalty. Cheating in examinations or tests may take the form of copying from another student or bringing unauthorized materials into the exam room. Exam cheating can also include exam impersonation. A student found guilty of contributing to cheating in examinations or term assignments is also subject to serious academic penalty. Students should acquaint themselves with the University's policy on plagiarism, cheating, exam impersonation and duplicate submission (See Section 7 in the online calendar: [http://webapps.cc.umanitoba.ca/calendar11/Academic Regulations.pdf](http://webapps.cc.umanitoba.ca/calendar11/Academic%20Regulations.pdf))

Students Accessibility Services

Student Accessibility Services

If you are a student with a disability, please contact SAS for academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g. mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

Student Accessibility Services <http://umanitoba.ca/student/saa/accessibility/>

520 University Centre

204 474 7423

Student_accessibility@umanitoba.ca

Expectations: You Can Expect Me To

- a) Attend and deliver lectures on time.
A large part of my teaching practice includes the use of PowerPoint presentations in class.
- b) Help you to understand the content and subject matter related to this course.
I expect students to either interrupt me or come and see me immediately after the lecture if there is anything that is not clear. I will help you as much as I can to succeed in this course

Class Schedule

This schedule is subject to change at the discretion of the instructor and/or based on the learning needs of the students, but such changes are subject to Section 2.8 of the – [ROASS](#)-Procedure.

MONTH	DATE	UNIT/ TOPIC
Jan	6	Introductions and syllabus
	11	Signs of disease
	13	Infectious causes of diseases
	18	Infectious causes of diseases
	20	No classes, no experiential learning (students who choose to can attend Ag Days on their own)
	27	Administration of drugs (Guest Lecture)
Feb	1	Test 1
	3	Immunity and vaccination (Guest Lecture)
	8	Biosecurity (Guest Lecture)
	10	Mastitis in Dairy Cattle (Guest Lecture)
	15	Metabolic diseases (Guest Lecture)
	17	Test 2
	22-25	Midterm Break
March	1	Diseases during breeding, pregnancy and parturition (Guest Lecture)
	3	Animal Welfare (Guest Lecture)
	8	Animal Welfare – Swine (Guest Lecture)
	10	Animal Welfare – Poultry (Guest Lecture)
	15	Humane Transportation of animals (Guest Lecture)
	17	The impact of Stress on Meat Quality (Guest Lecture)
	22	Test 3
	24	Animal health products – residues, food safety
	29	Animal health products – residues, food safety
	31	Complete and submit Assignment 2
April	5	Test 4

Course Evaluation Methods

Course evaluation components include a term test, two assignments and in-class participation.

Missed Exams

A missed exam will receive a score of zero unless the student provides a medical certificate giving the reason for missing the exam.

Due Date:	Assessment Tool	Value of Final Grade
February 1, 2022	Test 1	20%
February 17, 2022	Test 2	20%
March 17, 2022	Test 3	20%
April 5, 2022	Test 4	10%
March 1, 2022	Assignment 1 Infectious Disease Factsheet	10%
March 31, 2022	Assignment 2 Infectious Disease Factsheet	10%
All semester	Participation (Active and correct answers)	10%

Grading

Indicate your grading scale. A sample is given below that you can adjust to your course expectations.

Letter Grade	Percentage out of 100	Grade Point Range	Final Grade Point
A+	92-100	4.25-4.5	4.5
A	84-91	3.75-4.24	4.0
B+	77-83	3.25-3.74	3.5
B	70-76	2.75-3.24	3.0
C+	65-69	2.25-2.74	2.5
C	60-64	2.0-2.24	2.0
D	50-59	Less than 2.0	1.0
F	Less than 50		0

Assignment Descriptions

This semester you will be doing individual assignments. Assignment 1 is a factsheet on an infectious disease that affects one of the major livestock species in Manitoba. Your choice of disease must affect cattle, swine or poultry. The details and rubric for the assignment will be uploaded to UMLearn. The second assignment will be on topics that will also be provided in a separate document. The assignment will involve writing up a short fact sheet on some aspect of animal welfare or metabolic disease.